

Alignment .msf am 4.2.2003

Visser Sequence X58453 compared to Seq. ID No.1 (AX 349063) of WO 02/02785

ClustalW 1.8 Parameters	MView Parameters (output)
→fast pairwise alignment followed by multiple alignment	
ktuple=2 topdiags=4 pairgap=5 gapopen=10 gapext=5 maxdiv=40 transitions: unweighted dnatrix: IUB	
ruler: on coloring: identity threshold: 80 width: 50 consensus: off consensus coloring: identity consensus threshold: 100 consensus gaps: on consensus ref: 1 colormap: D_plain colorfile: -colorfile D_plain.map cons. colormap: -con_colormap D_plain	consensus ignore: singleton

Identities computed with respect to: (1) Visser-Seq

Colored by: identity + property

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Visser-Seq 100.0% 1 [ : 50
WO 45.5% AAGCTTTAACGAGATAGAAAATTATAATACTCCGTTTTGTCATTACTTA
-----GTTTGGTTTCGCTGTTTT--TCATTTCCTT

51 1 100
Visser-Seq 100.0% ACAAATGCAACAGTATCTGTACCAAATCCTCTC--TCTTTTCAAACCTTTT
WO 45.5% TCTTCTTAAGGGGTAATACCAATGACAGTAATTCATATTGTTGTAACAGTG

101 150
Visser-Seq 100.0% CTATTTGGCTGTTGACAGAGTAATCAGGATACAAAC--CACAAGTATTTAA
WO 45.5% CGATT---CTTGTCCTA----ATTATG--TACAATTTCTTTGTAATTGT

151 2 200
Visser-Seq 100.0% TTGACTCATCCACCAGATATTATGATTTATGAATCCTCGAAAAGCCTAT--
WO 45.5% TTGTTTCATGTTTTATTTCATTTTCCTTACTTTTAGGCTAAAACCAATG

201 250
Visser-Seq 100.0% CCATTAAGTCCTCAT--CTATGGATATACTTGACAGTTTCTTCCTA--TTT
WO 45.5% CCCCCAATTCAATCTACCTAAGAGGAAA--TT--CAGTTTATACTAGTTT

251 3 300
Visser-Seq 100.0% GGGTTTTTTTTTTTCTGCCAAGTGAACGGAGACATGTTATGTTGTATA
WO 45.5% CAGTTTTATTATTGTTTATTAAGTGT-----TTTAGTTGGTTTTT

301 350
Visser-Seq 100.0% CGGGAATCTCGTTAAAAAATAACAATAGGAAGAAATGTAACAAACA
WO 45.5% TCATTTATGTGTATGCATGAATAT---TAGG--GGTGTTG-----

351 4 400
Visser-Seq 100.0% TTGAATGTTGTTTTTAACCATCCTTCTTTTAGCAGTGATCAATTTT--
WO 45.5% --TCGGTGT--GTTAATATACA--CATAAGTATTA---TACACCCATTTTGT

401 450
Visser-Seq 100.0% --GTAATAGAACCATGCATCTCAATCTTAATACTAAAAATGCAACAAAA

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WO	45.5%	CAGTCATATAAATTATGCA-----ATTTCAGTAC---AAATGCTGCGCAAA	
Visser-Seq	100.0%	451 TTCTAGTGGAGGGACCAGTACCAGTACATTAGATATTATTTTTTATTACT	5 500
WO	45.5%	CTCTTCTT-----CATT---TTTATTTTTTTATT-T	
Visser-Seq	100.0%	501 ATAATAATATTTTAAT-TAACACGAGACATAGGAATGTCAAGTGGTAGCG	: 550
WO	45.5%	ATTTTCTTCTTTAAGGGTAATACCAATGATACTAATTT---ATGCTCTCA	
Visser-Seq	100.0%	551 GTAGGAGGGAGTTGGTTTAGTTTTAGATACTAGGAGACAGA-ACCGGAG	6 600
WO	45.5%	TTTGGA--AATTTCTTTTGAATAAT-ATGCTAGTACACACTTATTCTTG	
Visser-Seq	100.0%	601 GGGCCCATTCGAAGGCCCAAGTTGAAGTCCAGCCGTGAATCAACAAAGAG	: 650
WO	45.5%	TATATTATCGAAAAGCGCAATTT-----CTGTGTA-----	
Visser-Seq	100.0%	651 AGGGCCCATATACTGTCTGATGAGCATTTCCTATAATACAGTGTCCACA	7 700
WO	45.5%	-----AGTTTGTGCTATCTGTATTT-----TTTTTCATTTTTC---	
Visser-Seq	100.0%	701 GTTGCCCTCCGCTAAGGGATAGCCACCCGCTATTCTCTTGACACGTGTCA	: 750
WO	45.5%	--TTTCTCTGCG-AAGGGTAACACTAATGCCACTAA-TTCATTCTTG-CT	
Visser-Seq	100.0%	751 CTGAAACCTGCTACAAATAAGGCAGGCACCTCCTCATTCTCACACTCACT	8 800
WO	45.5%	TAGAAAACCTT-TAGTATTTTGATTGTGTTTAGTTTTTAATTCATTTTGT	
Visser-Seq	100.0%	801 CACACAGCTCAAC-AAGTGGTAACCTTTTACTCATCTCCTCCAATT-----A	: 850
WO	45.5%	TTCTTCTTTAAGGGAATACCAA-TGCCACTAATCATTCATCTTAGAA	
Visser-Seq	100.0%	851 TTTCTGATT-TCATGCATGTTTCCCTACATTC-TATTATGAATCGTGTTA	9 900
WO	45.5%	AATCTCTTTATCTTACAAAAA-CTCAACTTTTATATGCTTATTCGTGC-A	
Visser-Seq	100.0%	901 TGGTGATATAAA-CGTTGTTTCATATCTCATCT-CATCTATTCTGATTTTG	: 950
WO	45.5%	TATTATATAAAAGCACACTTTC-TATCTAATTGCGTGCAAACT--TTATC	
Visser-Seq	100.0%	951 ATTCTCTTGCTACTGTAATCGGTGATA-AATGTGAATGCTTCCTCTTCT	0 1000
WO	45.5%	ATTAT-TTGTCTAAATTAATTTTTTCTAGAATG---ATGATACCAATGCC	
Visser-Seq	100.0%	1001 TCTTCTTCTTCTTCTTCTTCTCAGAAATCAATTTCTGTTTTGTTTTGTT	: 1050
WO	45.5%	ACTAATTC-----ATTGCG-TGAGCAGCAATATGCCAATG-----	
Visser-Seq	100.0%	1051 CATCTGTAGCTTGGTAGATTCCCTTTTTGTAGACCACACATCACATGG-	1 1100
WO	45.5%	CCTACGTATATTAGTGGTGTGCGATTTTTC---ATCTCTCA-CGATGGG	
Visser-Seq	100.0%	1101 CAAGCATCACAGCTTCACAC-CACTTTGTGTCAAGAAGCCAACTTCACT	: 1150
WO	45.5%	CATGCATACC--CTACACATGCACACACGCAT-ACACAACACATCAGC	
Visser-Seq	100.0%	1151 AGACACCAAATCAACCTTGTACAGATAGGACTCAGGAACCATACTCTGA	2 1200
WO	45.5%	ACTCAGCGGAGCA-CATGCATACACCTT-GTGCGCACACACGAGACCGA	
Visser-Seq	100.0%	1201 CTCACAATGGTTTAAGGGCTGTTAACAAGCTTGATGGGCTCCAATCAAGA	: 1250
WO	45.5%	CACACAC-----GCACAGCCA-CATGCGTG-----CACTTAGAAGA	
Visser-Seq	100.0%	1251 ACTAATACTAAGGTAACACCCAAGA-TGGC-ATCCAGA--ACTGAC-ACC	3 1300
WO	45.5%	AAAAATAGACAGCTAT-ACATTGCACTGGCTAGCTATACTACCGTCTAAC	

Visser-Seq	100.0%	1301	AAGAG-ACCTGGATGCTCAGCTACCATTGTTTGTGGAAAGGGAATGAACT	1350
WO	45.5%		ACTAGTACGCTTGGTGTGTGTACGACC-TATTTCAGGT---GCCACAGACT	
Visser-Seq	100.0%	1351	TGATCTTTTGTGGGTACTGAGGTTGGTCCTTGGAGCAAAACTG-GTGGACT	4 1400
WO	45.5%		AGTATTTTCAGGCGACTGGGATATAGCCACGGCCTATTGTTTCGTGTCGT	
Visser-Seq	100.0%	1401	AGGT-GATGTTCTTGGTGGAC-TACCACCAGCCCTTGCAGTAAGTCTTTTC	1450
WO	45.5%		AGGACGAAAACGGTCAATATATGTGGCACTGGCC-TTCTAGAGACTCTCCA	
Visser-Seq	100.0%	1451	ATTTGGTTACCTACTCATTCACTTATTTTGTTTAGTTAGTTTCTACT	5 1500
WO	45.5%		AGAGGCTCACCACCTCAC-CGTGAGTGACAGCCCACCGTC-GCGTAAAGC	
Visser-Seq	100.0%	1501	GCATCAGTCTTTTTATCATTTAGGCCCGCGACATCGGGTAATGACAATA	1550
WO	45.5%		ACCGCA-----TTTA-CGTTT-----CCCCG---ATCCGACAAAGCCAGGG	
Visser-Seq	100.0%	1551	TCCCCCGGTTA-TGACCAA-TACAAAGATGCTTGGGATACTAGCGTTGCG	6 1600
WO	45.5%		CACGCACGTACGTGTCCATGTTGGCAGGTGGCTGCGTCCCTCACGCGCGG	
Visser-Seq	100.0%	1601	GTTGAGGTACATCTTCCATTTTGATA-CGGTACAATATTGTTCCCTTAC	1650
WO	45.5%		GTTTGCAGCAGTACGT-----GCTAGCTGTTCA-----TA--CCAGAGC	
Visser-Seq	100.0%	1651	ATTTCTGATTCAAGAATGTGATCCGCTACTTTATCTGCAGGTCAAAGTT	7 1700
WO	45.5%		CGTACCTCAATCAAGCAAAAGA---GAAAAGAA---GGGCGAAAGGT	
Visser-Seq	100.0%	1701	CGAGACAGCATTGAAATTGTTTCGTT-TCTTTCACTGCTATAAACGTGGGG	1750
WO	45.5%		G-ATAGGCC--CGGCCGTGT-CGTCTGTCTGCAGAGGAAGCAATCCCGGG	
Visser-Seq	100.0%	1751	---TTGATCGTGTTTTGTGGACC-ACCCAATGTTCTTGGAGAAAGTAAG	8 1800
WO	45.5%		CCATGCAAGCGCCATTGCCACGCCCGAGCGAAAGCGAAGGCGAGAGCGAG	
Visser-Seq	100.0%	1801	TAAGCATATTATGATTATGAATCC-GTCCTGAGGGATACGCAGAACAGGT	1850
WO	45.5%		--AGCACAC-ATG-----GCCCCAGAACTGAAAGCGAGCGAGCACACGA	
Visser-Seq	100.0%	1851	CATTTTGAATATCTTTTAAC-TCTTA-CTGGTGCTTTTACT--CTTTTAA	9 1900
WO	45.5%		GAAGGCGCGTGCCTGTCATCAGAGCGAAGACCCACCGGCAGCCCA	
Visser-Seq	100.0%	1901	GGTTTGGGGCAAACTGGTTCAAAAATCTATGGCCCCAAAGCTGGACTAG	1950
WO	45.5%		CCGGGCGGGCGCGGCAGGACAAGAAG--ATGCGTGACCGCGCGGGC--	
Visser-Seq	100.0%	1951	ATTATCTGGACAATGAAGTTAGGTTAGCTTGTGTGT-CAAGTAAGTTA	0 2000
WO	45.5%		---CGGCAACGGAAGGGGGCGCGCGCGCGAGCGCAGCGAA---A	
Visser-Seq	100.0%	2001	GTTACTTGTATACTGTGTCTTGATTTTATGTG-GCATTGTCTTTAA	2050
WO	45.5%		CGCGCGTCCGGCCAGCCACGAGCCGCTGGAAAGCGCGCGGCGG---AA	
Visser-Seq	100.0%	2051	TCGTTTTTTTAACTTCTTTTCTCAGGCAGCCCTAGAGGCACCTAAAGTT	1 2100
WO	45.5%		CCGAGAATGTG-CCAGGCTGCCA---GCCGCTCC-GCGCTACCACTAGTC	
Visser-Seq	100.0%	2101	TTGAATTTGAACAGTAGCAACTACTTCTCAGGACCATATGGTAATTAACA	2150
WO	45.5%		TGGTACGTGT-----GCCACT-CACTCCGCTCCGCTCGGCAGCA-CG	

Visser-Seq	100.0%	2151	CATCCTAGTTTCAGAAAACCTCTAGTAT-ATCATTGTAGGTAATCATCT	2	2200
WO	45.5%		CA-CGCAGG--CAGAAACAAACAAACAAAGTGGGTCACTCACT		
Visser-Seq	100.0%	2201	TTATTTTGCCATTTCCTGCAGGAGAGGATGTTCTTTCATTGCCAATGAT		2250
WO	45.5%		CCACTCAACGTCGCCTTTCAGGA--CGATG----CTTCGGTGCC--TTAA		
Visser-Seq	100.0%	2251	TGGCACACAGCTCTCATTCCTTGCTACTTGAAGTCAATGTACCAGTCCAG	3	2300
WO	45.5%		-GACACCTACCTTTGTGTCTATGACATGTGAGCCCAA-----CAGATGGC		
Visser-Seq	100.0%	2301	AGGAATCTATTGTAATG--CCAAGGTAAATTTCTTTGTATTCACTTGAT		2350
WO	45.5%		TGGCCCACTATCTAGTCATCCAAAGGCGAGTGCCTTTAAAG-CAGCGAA-		
Visser-Seq	100.0%	2351	TGCGCTTTACCCTGCAATCAGTA-AGGTTGTATTAATAAATGATAAATT	4	2400
WO	45.5%		---GCTGCGTCCCGCCTTTCATTACACGGGCCATGCATGCGGTGCG---		
Visser-Seq	100.0%	2401	TCACATTGCCTCCAGGTCGCTTCTGCATCCATAACATTGCCTACCAAGG		2450
WO	45.5%		TGCCGTCCGGTCTAGG---CGTTCCGGTGCCGGCCGGTGCATGC-ATGC		
Visser-Seq	100.0%	2451	CCGATTTCTTTCTCTGACTTCCCTCTTCTCAATCTTCTGATGAATTCA	5	2500
WO	45.5%		ACGAGGAGCGGAG-CGAGCGGG-----TATTGGGATCCAGCCA		
Visser-Seq	100.0%	2501	GGGTTCTTTTGATTTCAATGAT-GGGTATGTATTTAATGCTTGAAATCA		2550
WO	45.5%		CCGGA-----GGACTG-AGCGAGCGGGCGAGTAC-----AAATAA		
Visser-Seq	100.0%	2551	GACCACTAATTTTG--AAGCTCTTTTGATGCTAGTAAATGAGTTTAA	6	2600
WO	45.5%		CCCCACTACCGGAGCCACGACCGTTCTG-----TTCCCTTGAGTCCCGT		
Visser-Seq	100.0%	2601	AAATTTTGAGATATGAGAAGCCTGTTAAGGGTAGGAAAACTCACTGGAT		2650
WO	45.5%		CACCTTTCGCCC-----GCCCGCCCCACACACTACAAACAGGAGCCT		
Visser-Seq	100.0%	2651	GAAGGCTGGGATATTAGAATCACATAGGGTGGTTACAGTGAGCCCATACT	7	2700
WO	45.5%		CGAT-CTGCCAGTGAAGAAGAAGA-AGG-----ACACTCA-CGAATGCC		
Visser-Seq	100.0%	2701	ATGCCCAAGAACTTGCTCTGCTGTTGACAAGGGTGTGAATTGGAC--A		2750
WO	45.5%		CGCGCGGCGACTGTGAGTACGCTCCCTTCAGGAAGAAGAAGAAGAAGAA		
Visser-Seq	100.0%	2751	GTGTCCTTCGTAAGACTTGCATAACTGGGATTGTGAATGGCATGGATACA	8	2800
WO	45.5%		GAAGCAGAAGAAGAAGAAGCAGAA---GAAGAGATCAGACCAGGTACGCA		
Visser-Seq	100.0%	2801	CAAGAGTGGAA-ACCCAGCGACTGACAAATACACAGATGTCAAATACGATA		2850
WO	45.5%		CGAACGTATATAGTCAG-GCCGCGCCAGTTCCCGCCCGCCGG--ACGATG		
Visser-Seq	100.0%	2851	TAACCACTGTAAGATAAGATTT--TTCCGACTCCAGTATATGCTAAATTG	9	2900
WO	45.5%		GAT-----AGATC-GATTTAGTTGGGTCTCAATCAAGGTCGGTTGG		
Visser-Seq	100.0%	2901	TTTGTATGTTTATGAAATTAAAGAGTTCTTGCTAAT--CAAAATCTCTA		2950
WO	45.5%		TCTAGTA-GTAGAT-----AGA---TCCATCCAATGCCGCCATGTGT		
Visser-Seq	100.0%	2951	TACAGGTCATGGACGCAAAACCTTTACTAAAGGAGGCTCTTCAAGCAGCA	0	3000
WO	45.5%		TAGATC-CAGAGTCTCTTCTTTTACTTAAAGA---TCG-CGAGCGTAA		
		3001			3050

Visser-Seq	100.0%	GTTG--GCT--TGCCTGTTGACAAGAAGATCCCTTTGATTGGCTTCATCGG	
WO	45.5%	GTTGAGCATCTTCCTATAGATTCTAGAT-----TTAAA--ATCAT--G	
		3051	1 3100
Visser-Seq	100.0%	CAGACTTGAGGAGCAGAAAGGTTCAATATTCTTGTGCTGCAATTCACA	
WO	45.5%	TAAAAATTAAAA--AAAAAGATTAAAA--TCATGTA-CTGC--TACCT	
		3101	3150
Visser-Seq	100.0%	AGTTCATCGGATTGGATGTTCAA--ATTGTAGTCCTT--GTAAGTACCAAA	
WO	45.5%	AGG--ATGCATTCTATGTGAACGATCTAGATCTGCGGAACAGATCAA	
		3151	2 3200
Visser-Seq	100.0%	TGGACTCATGGTATCTCTCTTGTGAGTTTACTTGTGCCCCAACTGAAAT	
WO	45.5%	TGGATTTCATGG--CCGGCTAG--GGTTAATTACGACTAGACAGAGGC	
		3201	3250
Visser-Seq	100.0%	TGACCTGCTACTCATCCTATGCAT--CAGGGAAGTGGCAAAAAGGAGTTT	
WO	45.5%	AG--CATAATCGCG--CATAAACATTTCTGTTTCTAGCC--GAGTTG	
		3251	3 3300
Visser-Seq	100.0%	GAGCAGGAGATTGAACAGCTCGAAGTGTGTACCTAACAAAGCTAAAGG	
WO	45.5%	GATCA--A-----ACAGGTC--AGGTCAAGCACC-----AAGG	
		3301	3350
Visser-Seq	100.0%	AGTGGCAAAATTCAATGTCCCTTTGGCTCACATGATC--ACTGCTGGTGCT	
WO	45.5%	CTTTG--ATTTTGTGTTGTTTGGCGTGGGCGTTCCACTGC-----	
		3351	4 3400
Visser-Seq	100.0%	GATTTTATGTTGGTTCCAAGCAGATTGAACCTTGTGGTCTCATTCAAGTT	
WO	45.5%	-ACCCTA-----CAGAACAAATT--CGATTT--CTCAGCCAGTT	
		3401	3450
Visser-Seq	100.0%	ACATGCTATGCGATATGGAACAGTAAGAACCATAAGAGCTTGTACCTTTT	
WO	45.5%	CCACC--CGTGC-----ACGCGATTAAACAGCTTATTAATTAC	
		3451	5 3500
Visser-Seq	100.0%	TACTGAGTTTAAAAAAGAATCATA--AGACCTTGTTTCCGTCTAAAGT	
WO	45.5%	TACC--AGTGGGAGACA--CGTTCATATATCTCTGGT--CATGTTAATT	
		3501	3550
Visser-Seq	100.0%	TTAATAGCCAAT--AAATGTTAC--TGCAGCAAGCTTTTCATTTCTGAAAA	
WO	45.5%	TGGATTTCAAATTCAAATGTAAAAATCCAGAAAAGTTGA-----CTGCAA	
		3551	6 3600
Visser-Seq	100.0%	TTGGTTATCTAATTTTAACATAATCACATGTGAGTCAGGTGCCAATCTGT	
WO	45.5%	TT-----CTGGTTT--ACTTCACTAC-----TCAC--TAACAATCAGT	
		3601	3650
Visser-Seq	100.0%	GCA--TCGACTGGTGGACTTGTGACACTGTGAAAGAAGGCTATACTGGAT	
WO	45.5%	GCAGTCGTCT-----CTGCTG--C-----AGGTAGCCACAC-----	
		3651	7 3700
Visser-Seq	100.0%	TCCATATGGGAGCCTTCAATGTTGAAGTATGTGATTTTACATCAATTGTG	
WO	45.5%	--CCTGCGCGCGCC--ATGGCG-----G	
		3701	3750
Visser-Seq	100.0%	TACTTGATACATGGTCCATTCTCGTCTTGATATACCCCTTGTGCAATAAC	
WO	45.5%	CTCTGGT--CACGTC--CTCGCCACCTCCGGCAGCGTCTT--CAGCGTC	
		3751	8 3800
Visser-Seq	100.0%	ATTAACTTATTGCTTCTTGAATTTGGTTAGTGC--GATGTTGTTGA--CCC	
WO	45.5%	ACCGACAGATTCCGGCGTCCAGGTTTTCAGGGCCTGAGCCCCGGAACCC	
		3801	3850
Visser-Seq	100.0%	AGCTGATGTG--CTTAAGATAGTAACAACAGTTGCTAGAGCTCTTGCACTC	
WO	45.5%	GCGGGATGCGGCGCTCGGCA--TGAGGAGTGTG--GAGCGAGCGCCCC	
		3851	9 3900
Visser-Seq	100.0%	TATGGCACCCCTCGCATTTGCTGAGATGATAAAAAATTGCATGTCAGAGGA	

WO	45.5%	-----CCAAAGCAAGCAGGAAACCGCCCGATTCCGACCGCCCTG--	
Visser-Seq	100.0%	3901 : 3950	
WO	45.5%	ACTCTCCTGGAAGGTAGGTGTCAAATTGATAATTTGCGTAGGTACTTCAG	
		CCTCTCCATCGTGGTGCCTCCACGGGCA-----GCGGCCGCA--TGAA	
Visser-Seq	100.0%	3951 0 4000	
WO	45.5%	TTTGTGTCTCGTCAGTACTGATGGATGCCAAG-TGGTGTTCATGCAGG	
		CCTCGTGTTC--GTCTGCGCCGA--GATGCGCCCTGGA-----GCAAG	
Visser-Seq	100.0%	4001 : 4050	
WO	45.5%	AACCTGCCAAGAAATGGGAGACATTGCTATTGGGCTTAGGAGCTTC--TG	
		A--CTGCG--GGCTCGGCGAGCTC-CTCGCGGGCTCCCCGCCGCATG	
Visser-Seq	100.0%	4051 1 4100	
WO	45.5%	GCAGTGAACC--CGGTGTGAAGGGGAAGAAATCGCTCCACTTGCCAAGG	
		GCCGTAAAGCTTGCGCCACTGCCTTCTTATAAATGTTTCTTCTCG--AGC	
Visser-Seq	100.0%	4101 : 4150	
WO	45.5%	AAAATGTAGCCACTCCCTAAATGAGCTTTGGTTATCCTTGTTTCAACAAT	
		CAT-----GCCTGCGGTACACCGGTGCCGTG-TCCGTG---CAGGCCA	
Visser-Seq	100.0%	4151 2 4200	
WO	45.5%	AAGATCATTAAGCAAACGT-ATTTACTAGCGAACTATGTAGAACCCTATT	
		ACCGTCACCGGGTCATCGTTCATCTCCCCGCG--CTACGACCAAGTACAAGG	
Visser-Seq	100.0%	4201 : 4250	
WO	45.5%	ATG--GGGTCTCAA--TCATCTACAAAATGATTGGTTTTTGGCTGGGGA	
		ACGCCTGGGACACCAGCCTCATCTCCGA-----GGTATAT-----A	
Visser-Seq	100.0%	4251 3 4300	
WO	45.5%	GCAGCAGCAT--ATTAGGCTGTAAAATC-CTGGTTAATGATTTTGTAGGT	
		TCCGCGACATGAATTA--TCACAATTCATGCTCCTGCACATTTCTGC	
Visser-Seq	100.0%	4301 : 4350	
WO	45.5%	AAGGGCTATTTAAGGTTGTGTGGATCAAAGTCAATAGAAAATAGTTATTA	
		AAGA-CT-TTACTGACTGGCTGGATC---TCGC-AGATCAAGGT-----	
Visser-Seq	100.0%	4351 4 4400	
WO	45.5%	CTAACGTTTGCAACTAAATACTTAGTAATGTAGCATAAAATAACTAGTA	
		----CGTTGACAGGTACG-AGAGGGTGAGGTACTTCCACTGCTACAAGCG	
Visser-Seq	100.0%	4401 : 4450	
WO	45.5%	GCTAATATATATGCGTGAATTTGTTGTACCTTTTCTTGACATAATTATTTG	
		CGGGCTGGACC-GCGTG--TTCGTG-AC-----	
Visser-Seq	100.0%	4451 5 4500	
WO	45.5%	CAGTACATATATAATGAAATTACCCAAGGAATCAATGTTTCTTGCTCCG	

Visser-Seq	100.0%	4501 : 4550	
WO	45.5%	TCCTCCTTTGATGATTTTTTACTCAATGCAGAGCTAGTGTGTTAAGTTAT	

Visser-Seq	100.0%	4551 6 4600	
WO	45.5%	AAATTTTGTTTAAAAGAAGTAATCAATTTCAAATTAGTTGGTTGGTCATA	

Visser-Seq	100.0%	4601 : 4650	
WO	45.5%	TGAAAGAAGCTGGCAGGCTAACTTTGAGGAGATGGCTATTGAATTTCAAA	

Visser-Seq	100.0%	4651 7 4700	
WO	45.5%	GTGATTATGTGAAAACAATGCAACATTTATGTCAATCAACACTTAAATTA	

Visser-Seq	100.0%	4701 : 4750	
WO	45.5%	TTGCATTTAGAAAGATATTTTTGAGCCCACGACACATTCATTCATAAAGT	

4751] 4757
Visser-Seq 100.0% AAGGTAG
WO 45.5% -----

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